

EFD Cast Device Boxes; Blank Bodies for Brazed Threaded Hubs

Ordering Information

1-, 2-, 3-, 4- and 5-Gang Boxes. Brazed Threaded Hubs for Rigid Conduit, 1/2" thru 1"; Brazed Union Hubs, 1/2" thru 1".

NEC/CEC:

Class I, Division 1, Groups C, D
 Class I, Division 2, Groups B, C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 3R, 7CD, 9EFG

Determine catalog number as follows:

- (1) Select EFD device box catalog number;
- (2) Select "Standard Hub Arrangement Diagram" number; and
- (3) Select symbols that represent hub sizes from "Symbol Table." (Use "0" where no hub is required, and separate the various divisions of the complete catalog number by dashes.)

Example

The blank body device box selected is EFD3NL and the hub arrangement is diagram #8. Hub "a" is to be 3/4" brazed threaded; hub "b", 1" brazed threaded; hub "c", 3/4" brazed threaded; hub "d", no hub is required; and hub "e", 1" brazed union.

The complete catalog number will be:
EFD-3NL-8-23203E

If a "Standard Hub Arrangement" is not suitable for the application, or when hubs are to be more accurately spaced, submit sketch locating hubs (1) from centerlines of walls and (2) from outside back of box (or from mounting lug surface if lugs are supplied).

All hubs will be located in centerlines of walls and evenly spaced unless otherwise specified.

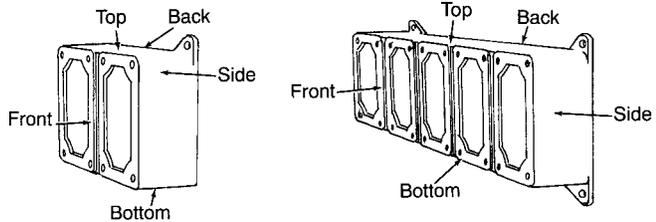
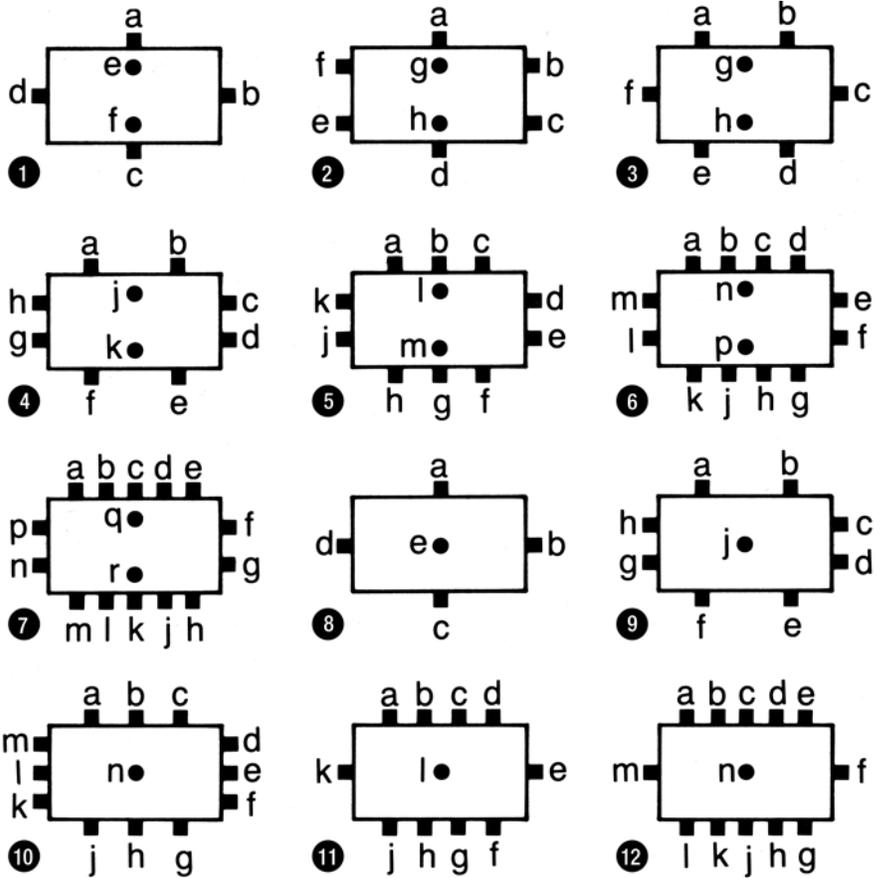
Symbol Table

Hub Size (Inches)	Brazed Threaded Hub Symbol	Brazed Union Hub Symbol
Blank	0	0
1/2	1	1E
3/4	2	2E
1	3	3E

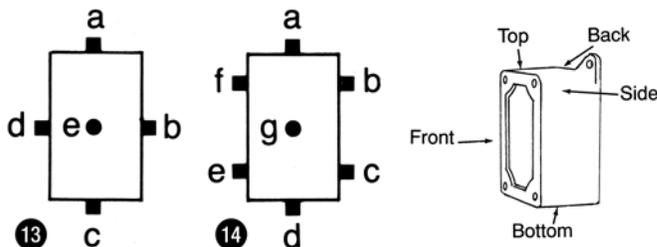
Standard Hub Arrangement Diagrams

Hub "a" is always TOP of box

2-, 3-, 4- and 5-Gang (Front View)



1-Gang (Front View)



EDS Series Factory Sealed Manual Motor Starters and Contactors

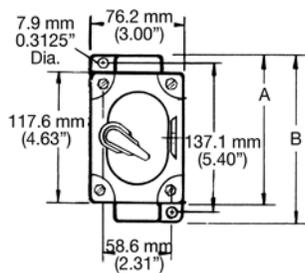
Explosionproof, Dust-Ignitionproof

NEC/CEC:

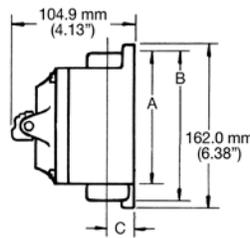
Class I, Division 1, Groups C, D
 Class I, Division 2, Groups B, C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 3R, 7CD, 9EFG

Dimensions in Millimeters (Inches)

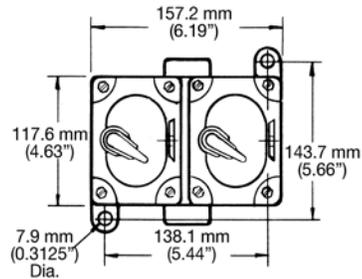
1-Gang and 2-Gang



1-Gang Front



1- and 2-Gang Side



2-Gang Front

CONTROLS: NEC/CEC EXPLOSIONPROOF MOTOR STARTERS

Hub Size (Inches)	Dimensions in Millimeters (Inches)		
	A	B	C
1/2	153.9 (6.06)	172.9 (6.81)	19.0 (0.75)
3/4	153.9 (6.06)	172.9 (6.81)	22.3 (0.88)
1	156.7 (6.17)	178.5 (7.03)	25.4 (1.00)

Contender™ Series Factory Sealed Manual Motor Starters and Contactors

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 3, 7CD, 9EFG

Applications

- Manual motor starters are available to meet any plant installation requirement.
- They may be used to install a variety of electrical wiring devices and comes complete with covers and dead-end or feed-thru hub arrangements. Available with or without the heater.
- Complete units are ideal for manual starting of small Vac or Vdc motors in locations made hazardous by the presence of flammable vapors, gases or combustible dust.

Features

- Easily readable operator handle with provisions for padlocking in the ON or OFF position.
- Cast in hubs.
- Interchangeable heater units.

Standard Materials

- Body and cover: malleable iron
- Sealing chamber: copperfree (4/10 of 1% max.) aluminum
- Operating handle: nylon

Standard Finishes

- Body and cover: gray epoxy powder coat

Options

- For Aluminum Backbox and Cover add suffix **-SA**.
- Starters are furnished with one interchangeable heater. Select heater number from heater selection table and add appropriate suffix to catalog number. For example, a complete catalog number with Allen-Bradley ◀ motor starter and Allen-Bradley ◀ 0-17 amp heater: EPS2199-P1.

NEC/CEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203,
- CSA Standards: CSA C22.2 No. 14-M, C22.2 No. 25, C22.2 No. 30
- cULus Listed: E81751, E76550



1-Gang
Dead-End



2-Gang
Feed-Thru

CONTROLS: NEC/CEC EXPLOSIONPROOF MOTOR STARTERS

Appleton

◀ Allen-Bradley is a registered trademark of Rockwell Automation.

Contender™ Series Factory Sealed Manual Motor Starters and Contactors

Explosionproof, Dust-Ignitionproof

NEC/CEC:
 Class I, Division 1 and 2, Groups C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 7CD, 9EFG



Factory Sealed Manual Motor Starters with Cutler-Hammer + Devices

Poles	Hub Size (Inches)	Catalog Number Cover/Chamber/Device	1-Gang Catalog Number ①		2-Gang Catalog Number ①	
			Dead-End	Feed-Thru	Dead-End	Feed-Thru
1	1/2	EDSK-1MSW	EDS11101	EDSC11101	—	—
	3/4		EDS21101	EDSC21101	EDS22101	EDSC22101
	1		EDS31101	EDSC31101	EDS32101	EDSC32101
2	1/2	EDSK-2MSW	EDS11102	EDSC11102	—	—
	3/4		EDS21102	EDSC21102	EDS22102	EDSC22102
	1		EDS31102	EDSC31102	EDS32102	EDSC32102

Manual Motor Starter Horsepower Ratings

Poles	120–240 Vac	32 Vdc	120 Vdc	240 Vdc	Cutler-Hammer + Catalog Number
1	1 HP	1/4 HP	—	1/4 HP	MST01
2	1 HP	1/4 HP	1 HP	1 HP	MST02



Factory Sealed Motor Rated Switches — No Heater Options

Poles	Hub Size (Inches)	Catalog Number Cover/Chamber/Device	1-Gang Catalog Number		2-Gang Catalog Number	
			Dead-End	Feed-Thru	Dead-End	Feed-Thru
2	1/2	EDSK-MC2	EDS11MC2	EDSC11MC2	—	—
	3/4		EDS21MC2	EDSC21MC2	EDS22MC2	EDSC22MC2
	1		EDS31MC2	EDSC31MC2	EDS32MC2	EDSC32MC2
3	1/2	EDSK-MC3	EDS11MC3	EDSC11MC3	—	—
	3/4		EDS21MC3	EDSC21MC3	EDS22MC3	EDSC22MC3
	1		EDS31MC3	EDSC31MC3	EDS32MC3	EDSC32MC3

Manual Contactor Switch Ratings

Poles	Description	Rating
2	Square D – Class 2510, Type KO-1	30 Amp, 250 Vac/Vdc; 20 Amp, 600 Vac; 1 HP, 115 Vac; 2 HP, 230 Vac; 3 HP, 460-575 Vac
3	Arrow-Hart – AH7810-UD	30 Amp, 600 Vac; 3 HP, 120 Vac; 7-1/2 HP, 240 Vac; 15 HP, 480 Vac; 15 HP 600 Vac

+ Cutler-Hammer is a registered trademark of Eaton Corporation.

① **Ordering Instructions:** Starters and starter cover assemblies are furnished with one interchangeable heater. Select heater number from heater selection table and add appropriate suffix to catalog number. For example, a complete catalog number with Cutler-Hammer motor starter and Cutler-Hammer heater: EDS11101-W1. Available in aluminum — add suffix -SA.

CONTROLS: NEC/CEC EXPLOSIONPROOF MOTOR STARTERS

Appleton®